

**IN THE SPECIFICATION:**

**The Applicants hereby amend the paragraph on page 4, beginning on line 17 of the specification as follows:**

In still another embodiment, the amplitude of the pulses is compared in the comparator with the variable switching threshold, which is adjusted if the difference of the frequencies of successive pulses trains exceeds a fixable fourth maximum value.

**The Applicants hereby amend the paragraph on page 7, beginning on line 17 of the specification as follows:**

FIG. 2 illustrates an alternative embodiment rotational sensing system 30. This system also includes the sensor 12 that cooperates with the rotating wheel ~~16~~4, and provides the sensor output signal on the line 17. The system illustrated in FIG. 2 is substantially similar to the system disclosed in FIG. 1, with a principal exception that the sensing system 30 illustrated in FIG. 2 includes a synchronization detector 32. The synchronization detector 32 receives the output signal on the line 22 and provides a sync output signal on a line 34, which is input to the evaluation circuit 24. In this embodiment, the evaluation circuit 24 is only allowed to make changes to the threshold signal on the line 20 when the synchronization signal on the line 34 is valid, indicating the presence of the synchronization signal. When the synchronization signal is detected, the evaluation circuit 24 is then allowed to make the adjustments as set forth above. For example, if the evaluation circuit 24 is configured to adjust the threshold when the difference between the amplitude of the pulses and the threshold signal on the line 20 exceeds the fixable first maximum value, this adjustment will only be made when the sync signal on the line 34 is valid. That is, if the sync signal on the line 34 is not valid, the threshold signal will not be adjusted even if the difference between the amplitude of the pulses and the threshold signal on the line 20 exceeds the fixable first maximum value. Of course, any of the adjustment criteria set forth above may be used alone or in combination in the system illustrated in FIG. 2.